

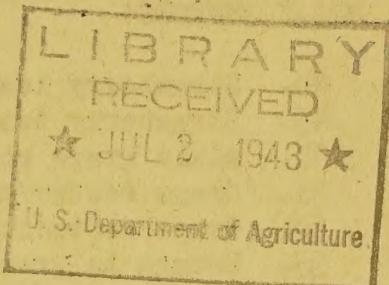
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UNITED STATES DEPARTMENT OF AGRICULTURE
U.S. EXTENSION SERVICE
Washington, D. C.

COLOR SLIDES ON INSECTS

VEGETABLE INSECTS:

1. Asparagus beetles. (R. I. 1)
2. Mexican bean beetles. (Ind. 576)
3. Bean leaf beetle. (S.C. 1)
4. Bean leaf beetle injury to beans. (S.C. 2)
5. Spotted cucumber beetle. (Md. 1)
6. Striped cucumber beetle. (Md. 2)
7. Pickleworm injury on cymlings. (Md. 19)
8. Pickleworm injury on acorn squash. (Md. 20)
9. Squash bug. (Md. 17)
10. Squash bug nymphs on squash. (Md. 18)
11. Potato flea beetle. (R.I. 10)
12. Colorado potato beetle. (Ind. 648)
13. Larvae of Colorado potato beetle. (Mo. 52)
14. Eggs of Colorado potato beetle. (Mo. 55)
15. Margined blister beetles. (R.I. 5)
16. Blister beetle injury on beets. (Miss. 6)
17. Cabbage head attacked by cabbage worms. (Kans. 16)
18. Cabbage maggot injury. (Md. 21)
19. Cutworms. (Md. 22)
20. Protection from cutworms. (Miss. 17)
21. Celery caterpillar on carrot. (Iowa 761)
22. Pea weevil on pea blossom. (Brindley 2)
23. Pea weevil eggs on pea pod. (Brindley 1)
24. Tomato hornworm. (Ind. 321)
25. Nematode injury to tomato plants. (Miss. 18)
26. Nematode injury to tomato roots. (Miss. 19)
27. Tomato fruitworm injury. (Md. 23)
28. Tomato fruitworm injury. (Md. 24)
29. Parasitized earworm larvae. (Md. 25)
30. Leaf miner on spinach. (Ohio 5a)
31. Melon aphid. (Ind. 629)
32. Pea duster with trailer attached. (Brindley 3)



FLOWER INSECTS:

33. Iris borer in iris root. (Md. 51)
34. Gladiolus thrips injury to corms. (Md. 43)
35. Rhododendron lacebug, adult and injury. (N.Y. 994)
36. White fly nymphs. (N. Y. 917)
37. White fly adults. (N. Y. 916)
38. Rose aphids on rose buds. (N. Y. 960)
39. Mexican mealybug on chrysanthemum. (N. Y. 920)
40. Four-lined plant bug injury. (N. Y. 951)
41. Four-lined plant bug on chrysanthemum. (N. Y. 949)
42. Chrysanthemum gall midge - galls. (N. Y. 908)

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FLOWER INSECTS (Continued)

43. Red spider mite injury to Phlox. (N. Y. 954)
44. Thrip injury to carnation buds and blossoms. (N. Y. 918)
45. Rose leafhopper and injury. (N. Y. 948)
46. Columbine leaf miner and injury. (N. Y. 941)
47. Rose chafer. (Md. 52)

BERRY INSECTS:

48. Strawberry leaf roller. (Iowa 1105)
49. Strawberry duster equipped with apron. (N. Y. 75)
50. Adult grape rootworm. (Mo. 49)
51. Grape rootworm eggs. (Mo. 50)
52. Grape rootworm larvae. (Mo. 51)
53. Damage to grape leaves by adults of grape rootworms. (Mo. 48)
54. Leafhopper (Erythroneura). (Ind. 541)
55. Leafhopper (Erythroneura). (Ind. 540)
56. Grape leaf damaged by Erythroneura comes. (Tex. 2)
57. Injury caused by grape berry moth. (N. Y. 53)

FRUIT INSECTS:

58. Codling moth and Oriental fruit moth. (Mo. 10)
59. Codling moths caught in a bait trap. (Mo. 8)
60. Codling moth eggs on apple hatching. (Mo. 2)
61. Codling moth larvae in band. (Mo. 3)
62. Codling moth pupa. (Mo. 7)
63. Codling moth injury to apples. (Mo. 4)
64. Codling moth worm holes. (N. Y. 32)
65. Codling moth damage. (Ind. 1079)
66. Apple damaged by codling moth. (Mo. 11)
67. Apple drops caused by codling moth. (Mo. 6)
68. Apple tree scraped ready for treated band. (Mo. 12)
69. Plum curculio life history chart. (Kans. 19)
70. Apple curculio on apple. (Mo. 14)
71. Apple curculio with beak inserted. (Mo. 16)
72. Injury caused by summer generation of plum curculio. (N. Y. 37)
73. Fruit tree leaf roller moth. (Mo. 22)
74. Fruit tree leaf roller egg masses. (N. Y. 21)
75. Leaf tied to an apple by fruit tree leaf roller. (Mo. 19)
76. Apple leaf removed showing leaf roller larva. (Mo. 20)
77. Fruit tree leaf roller damage on apple. (N. Y. 22)
78. Apples injured by fruit tree leaf rollers. (Mo. 21)
79. Injury by summer brood of eye-spotted bud moth. (N. Y. 28)
80. Aphis injury to apple leaves. (Md. 53)
81. Apples dwarfed by rosy asphids. (Mo. 40)
82. San Jose scale injury on apple. (N. Y. 13)
83. Scurfy scale injury on apple. (N. Y. 14)
84. Green asphis smutting on fruit. (N. Y. 16)
85. Redbug, insect and damage to fruit and foliage. (N. Y. 19)
86. Redbug injury to apple. (N. Y. 20)
87. Injury caused by the apple maggot. (N. Y. 35)

FRUIT INSECTS: (Continued)

88. Injury caused by the apple maggot. (N.Y. 36)
 89. Leaf skeletonizer on apple leaf. (Mo. 29)
 90. European red mite eggs in calyx end of apple. (N.Y. 31)
 91. Leafhopper damage to apple leaf. (Ind. 618)
 92. White apple leaf hopper injury. (N.Y. 40)
 93. Apple twig defoliated by spring cankerworms. (Mo. 43)
 94. Apple tree defoliated by spring cankerworms. (Mo. 44)
 95. Nest of fall webworms. (Mo. 45)
 96. Time to apply dormant spray. (N.Y. 1)
 97. Time to apply green-tip spray. (N.Y. 4)
 98. Time to apply delayed dormant spray. (N.Y. 5)
 99. Earliest stage for applying pink spray. (N.Y. 8)
 100. Best stage for applying pink spray. (N.Y. 9)
 101. Time to apply calyx spray. (N.Y. 11)
 102. Time to apply special curculio spray. (N.Y. 12)
 103. Oriental fruit worm twig damage. (Ind. 1077)
 104. Oriental peach moth injury. (Md. 54)
 105. Oriental fruit moth injury on peach fruit. (N.Y. 51)
 106. Catfacing of peaches caused by plant bugs. (MPJ 1)
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JUL 2
 107. Arsenic injury to peach. (MPJ 2)
 108. Arsenical injury on apple. (Ind. 1075)
 109. Ethylene dichloride injury to peach when improperly applied. (Md. 55)
 110. Round-headed apple tree borer. (Mo. 23)
 111. Green June beetle on fig. (Ga. 7)
 112. Pecan weevil. (Ga. 6)
 113. Stream from spray gun (solid). (Ind. 1082)
 114. Stream from spray gun (fan). (Ind. 1083)

ORNAMENTAL AND SHADE TREE INSECTS:

115. Pine bark aphid. (N.Y. 995)
 116. Azalea scale *Eriococcus azaleae*. (N.Y. 1022)
 117. Oystershell scale - enlarged. (N.Y. 1005)
 118. Euonymus scale. (N.Y. 1001)
 119. Pine needle scale - enlarged. (N.Y. 998)
 120. Willow leaf beetle, larva, adult and injury. (N.Y. 992)
 121. Elm leaf beetle larvae and injury. (N.Y. 965)
 122. Fall webworm. (Ind. 376)
 123. Forest tent caterpillar - larvae and injury. (N.Y. 961)
 124. White-marked tussock moth. (MPJ 3)
 125. Gypsy moth larva. (Md. 56)
 126. Juniper webworm larvae and injury. (N.Y. 968)
 127. Larch casebearer larvae and injury. (N.Y. 971)
 128. European pine shoot moth - larvae and injury. (N.Y. 990)
 129. White pine weevil larvae in situ. (N.Y. 989)
 130. White pine weevil injured shoots. (N.Y. 988)
 131. Evergreen bagworms - bags. (N.Y. 966)
 132. Evergreen bagworm cross section, bags, adult and eggs. (N.Y. 967)
 133. LeConte's pine sawfly - larvae. (N.Y. 1023)
 134. E. spruce gall aphid - gall enlarged and cross section. (N.Y. 981)
 135. E. spruce gall, aphid, nymphs and eggs. (N.Y. 983)

ORNAMENTAL AND SHADE TREE INSECTS: (Continued)

136. Sitka spruce gall aphids - galls. (N.Y. 984)
137. Maple bladder galls. (N.Y. 985)
138. Arborvitae leaf-miner injury. (N.Y. 974)
139. Holly leaf-miner injury. (N.Y. 977)
140. Boxwood leaf miner, colored pupae. (N.Y. 1016)

COTTON INSECTS:

141. Normal unpunctured cotton square. (Ohio 1)
142. Cotton square punctured by boll weevil. (Ohio 8)
143. Boll weevil larva in a cotton square. (Ohio 5)
144. Enlarged view of boll weevil larva in cotton square. (Ohio 15)
145. Examining cotton for boll weevil infestation. (Okla. 1)
146. Red spider on cotton. (Okla. (Hixson) 2)
147. Red spider on cotton. (Okla. (Hixson) 5)
148. Red spider on cotton. (Okla. (Hixson) 6)
149. Aphid injury to cotton. (Okla. (Hixson) 7)
150. Egg cluster and young Euschistus impictiventris. (Tex. 1)
151. Field of late cotton defeliated by leafworm. (Okla. 7)
152. Dusting cotton for fleahopper. (Okla. 4)

FIELD CROP INSECTS:

153. Life history of the chinch bug. (Kans. 1)
154. Annual history of the chinch bug. (Kans. 2)
155. Immature chinch bugs on corn.. (Mo. 61)
156. Mature chinch bugs on corn. (Mo. 63)
157. Chinch bugs from winter quarters attacking barley. (Kans. 8)
158. Wheat field from which chinch bugs moved and killed corn. (Mo. 64)
159. A well-constructed chinch bug barrier. (Kans. 11)
160. Dinitro chinch bug barrier. (Ind. 1104)
161. Clump of blue stem grass harboring over 2,000 chinch bugs. (Kans. 4)
162. Chart of hessian fly. (Kans. 17)
163. Hessian fly flaxseeds on wheat. (Iowa 305)
164. Black lubber grasshopper. (Ga. 4)
165. Grasshoppers feeding on apple tree. (Mo. 34)
166. Schistocerca shoshone ovipositing. (Tex. 3)
167. Grasshopper egg pods. (Iowa 209)
168. Common stalk borer. (Ind. 419)
169. Oat plants injured by greenbugs. (Miss. 15)
170. Oat field ruined by greenbugs. (Miss. 16)
171. Comparing root systems of sound and rootworm infested corn. Iowa 620)
172. European corn borer moths (male and female). (Ind. 1009)
173. European corn borer female moth and egg mass. (Ind. 1007)
174. European corn borer in tassel. (Ind. 1034)
175. European corn borer in stalk. (Ind. 952)
176. European corn borer. (Ind. 754)
177. European corn borer pupa in stalk. (Ind. 1004)
178. Cornstalks in feed lot. (Ind. 946)
179. Corn plants injured by the southwestern corn borer. (Kans. 32)
180. Southwestern corn borer in the tips of the roots. (Kans. 31)
181. Section of cornstalk showing six southwestern corn borer larvae. (Kans. 30)
182. Cryolite control of velvetbean caterpillar. (S.C. 5)

STORED GRAIN INSECTS:

183. Rice weevil adult. (Calif. 8)
184. Lesser grain borer. (Calif. 18)
185. Angoumois grain moth pupae. (Calif. 9)
186. Angoumois grain moth larva. (Calif. 10)
187. Indian meal moth. (Calif. 11)
188. Indian meal moth cocoons. (Calif. 30)
189. Cadelle larva. (Calif. 16)
190. Mealworms. (Ind. 413)
191. Grain weevil pre-pupa. (Calif. 12)
192. Vertical section of surface 6" showing web and damaged corn. (Iowa 507)
193. Screenings on left, seed on right, bin in background. Unsanitary. (Calif. 13)
194. A seed house, also used for odds and ends. (Calif. 14)
195. Screenings on left and seed in back, all badly infested. (Calif. 15)

LIVESTOCK INSECTS:

196. Cattle grub; life history. (Kans. 20)
197. Calf sheared January 1 shows 84 grubs and area to treat. (Kans. 24)
198. Enlarged grub showing position under the skin. (Kans. 21)
199. Control by squeezing out the cattle grub. (Kans. 22)
200. Applying derris wash to the backs of cattle. (Kans. 23)
201. Treating cattle for grub control. (Okla. 11)
202. 4-H boys treating steer for cattle grub control. (Okla. 10)
203. Horse bots in larval stage. (Mo. 59)

BENEFICIAL INSECTS:

204. Lady beetles. (R.I. 2)
205. Lady beetle eggs and larvae. (Mo. 28)
206. Praying mantis. (N.Y. 940)
207. Egg packets of praying mantis. (Mo. 46)
208. Lacewing. (Mo. 70)
209. Armyworms parasitized and healthy. (Iowa 403)
210. Honeybee on apple blossom. (Mo. 26)

CARTOONS OF INSECTS:

211. Cartoon - Leaf feeders. (N.Y. 1025)
212. Cartoon - Scale insects. (N.Y. 1028)
213. Cartoon - Leaf miners. (N.Y. 1027)
214. Cartoon - Wood borers. (N.Y. 1026)
215. Cartoon - Gall insects. (N.Y. 1029)

MISCELLANEOUS INSECTS:

216. Termites and damage. (Mo. 58)
217. Carpet beetle larvae and damage to cloth. (Mo. 68)
218. A flea (Thrassis stanfordi) (Utah 16)
219. Black widow spider. (Mo. 71)
220. Home-made fly trap; very useful and beneficial. (Kans. 26)

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